DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, FIELD AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS AND MAINTENANCE ALLOCATION CHART HEADSET, ELECTRICAL H-113/U

Headquarters, Department of the Army, Washington 25, D. C.
21 March 1962

SECTION		Paragraph	Page
I.	INTRODUCTION		
	Scope	1	1
	Parts for maintenance	2	2
	Stockage	3	2
	Requisitioning information	4	2
	Comments or suggestions	5	3
II.	FIRST ECHELON FUNCTIONAL PARTS LIST		4
III.	THIRD ECHELON FUNCTIONAL PARTS LIST		5
IV.	MAINTENANCE ALLOCATION		6
	General	6	6
	Columns	7	6
V.	MAINTENANCE ALLOCATION CHART		8
VI.	ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS		9

SECTION I

INTRODUCTION

1. Scope

a. This manual includes an operator, organizational and field and depot maintenance repair parts and special tools list.

(1) The operator's maintenance repair parts and special tools list lists items supplied for initial operation.

(2) The field maintenance repair parts and special tools list lists the quantities of repair parts authorized for third echelon field maintenance and is a basis for requisitioning authorized parts.

(3) The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns are as follows:

(1) *Source, maintenance, and recoverability code.* Source, maintenance, and recoverability codes indicate the technical service

* This manual supersedes TM 11-5965-231-12P, 24 November 1959 and TM 11-5965-231-35P, 24 November 1959, including C1, 31 May 1961.

responsible for supply, the echelons where an item is stocked, echelons where an item is installed or repaired, and whether an item is repairable or salvageable. The source code column is divided into four parts.

(a) Column A. This column indicates the technical service responsible for supply. AR 310–2 defines the basic numbers used to identify the technical services. If the part is supplied by the Signal Corps, the column is blank.

(b) Column B. This column indicates the point within the maintenance system where the part is available. "P" indicates that the repair part is a high mortality part; procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons. "P1" indicates that the repair part is a low mortality part; procured by technical services, stocked only in and supplied from technical service *key* depots, and authorized for installation at indicated maintenance echelons.

(c) Column C. This column indicates the lowest maintenance echelon authorized to install the part.
"F"—Field maintenance (3d echelon).

(d) Column D. Not used.

(2) *Federal stock number.* This column lists the 11-digit Federal stock number.

(3) *Designation by model.* Not used.

(4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.

(5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.

(7) *Quantity authorized.* Under "Items Comprising an Operable Equipment," the column lists the quantity of items supplied for the initial operation of the equipment.

(8) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.

(9) *Field (third echelon).* This column indicates quantities of repair parts authorized for initial stockage for use in the third echelon maintenance and in supply support to second echelon. The quantities are based on 100 equipments to be maintained for a 15-day period.

(10) *Field (fourth echelon).* This equipment shall not be maintained above 3d echelon; when unrepairable at 3d echelon, this equipment shall be salvaged.

(11) *Depot (fifth echelon).* See (10) above.

(12) *Illustrations.* Not used.

2. Parts for Maintenance

When this equipment is used by signal service organizations organic to the theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including fourth echelon are authorized for stockage by the organization operating this equipment.

3. Stockage

No parts authorized for stockage at second echelon.

4. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor}}{100} = \text{Number of parts authorized for initial stockage.}$$

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

(1) When the total number of parts authorized is less than 0.5, the quantity authorized will be zero.

(2) When the total number of parts authorized is between 0.5 and 1.0, the quantity authorized will be one.

(3) For all values above one, fractional values below 0.5 will revert to the next lower whole number and fractional value 0.5 and above will advance to the next higher whole number.

c. The quantities determined in accordance with the above computation represent the initial stockage for a 15-day period.

5. Comments or Suggestions

Any comments concerning omissions and discrepancies in this manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMS–ML, Fort Monmouth, N. J.

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY AUTHORIZED	(8) ILLUSTRATIONS FIGURE NO.	(9) ILLUSTRATIONS ITEM NO.
	5965-504-6370		HEADSET, ELECTRICAL H-113/U: 600 ohms nom impedance, connected in series; 2 earphones, 1-63/64" dia x 0.603" d; single headband, adj steel, IRC cord, 43" lg terminated by 1 phone plug; incl 2 earphone cushions;					
			ITEMS COMPRISING AN OPERABLE EQUIPMENT					
	Ord thru AGC		TECHNICAL MANUAL TM 11-5965-231-15P			2		
	Ord thru AGC		DEPARTMENT OF THE ARMY TECHNICAL BULLETIN TB SIG 286			2		
			HEADSET, ELECTRICAL H-113/U (BASIC COMPONENT)		NX	1		
			RUNNING SPARES AND ACCESSORY ITEMS					
			NO PARTS AUTHORIZED FOR STOCKAGE AT FIRST ECHELON.					

SECTION III THIRD ECHELON FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE				(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) FIELD 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPS		(9) DEPOT QUANTITY REQUIRED FOR REBUILD OF 100 EQUIPS	(11) ILLUSTRATIONS	
										3RD	4TH	5TH	FIGURE NO	ITEM NO
A	B	C	D			HEADSET, ELECTRICAL H-113/U:								
				5965-504-6370		HEADSET, ELECTRICAL H-113/U: 600 ohms nom inpedance, connected in series; 2 earphones, 1-63/64" dia x 0.603" d; single headband adj steel, IRC cord 43" lg terminated by 1 phone plug; incl 2 earphone cushions;		NX						
	P1	F		5965-319-0642		ARM, HEADBAND, EARPHONE MOUNTING: Sig dwg No. SM-D-105224-1			1	0.5				
	P1	F		5965-321-6694		ARM HEADBAND, EARPHONE MOUNTING: Sig dwg No. SM-D-105224-11;			1	0.5				
	P1	F		5340-537-4204		BAND, CORD: Sig dwg No. SM-B-105223;			1	1.0				
	P1	F		5995-537-5565		CORD ASSEMBLY, ELECTRICAL: w/headband cover heat sealed in position; Sig dwg No. SM-D-105214;			1	1.0				
	P	F		5965-244-1741		CUSHION EARPHONE: rubber; slip over type; Sig dwg No. SC-C-53606;			2	1.7				
	P1	F		5965-280-3630		HEADBAND, HEADSET: single flat band; Sig dwg No. SC-B-84250;			1	0.5				
	P1	F		5305-537-8625		SCREW, EXTERNALLY RELIEVED BODY: mts arm to headband; No. 4-40 NC-2, 1/8" lg thr; Sig dwg No. SM-B-105231;			2	1.1				
	P1	F		5305-537-8233		SCREW, MACHING: mts earphone to arm; SS; Fil H; No. 5-40 NC-2A x 1/8" lg; Fed spec No. FF-S-92 type 1, style 4S;			2	1.1				

SECTION IV

MAINTENANCE ALLOCATION

6. General

This section assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance echelon.

7. Columns

a. Columns in the maintenance allocation chart are as follows:

(1) *Part or component.* This column shows only the nomenclature or standard item name. Additional descriptive data are included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top-down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown (components, assemblies, or subassemblies) is listed in disassembly order or alphabetical order.

(2) *Maintenance function.* This column indicates the various maintenance functions allocated to the echelons.

(a) Service. To clean, to preserve, and to replenish lubricants.

(b) Adjust. To regulate periodically to prevent malfunction.

(c) Inspect. To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.

(d) Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

(e) Replace. To substitute serviceable components, assemblies, or subassemblies, for unserviceable components, assemblies, or subassemblies.

(f) Repair. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

(g) Align. To adjust two or more components of an electrical system so that their functions are properly synchronized.

(h) Calibrate. To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.

(i) Overhaul. To restore an item to *completely serviceable* condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "Inspect and Repair Only as Necessary" (IROAN). Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.

(j) Rebuild. To restore an item to a standard as near as possible to original or new condition in appearance, performance, and life expectancy. This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

(3) *1st, 2d, 3d, 4th, 5th echelons.* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon marked by X are authorized to perform the indicated operation.

(4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.

(5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

b. Columns in the allocation of tools for maintenance functions are as follows:

(1) *Tools required for maintenance functions.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

(2) *1st, 2d, 3d, 4th, 5th echelon.* The dagger (†) symbol indicates the echelons normally allocated the facility.

(3) *Tool code.* This column lists the tool code assigned.

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH.	(4) 2ND ECH.	(5) 3RD ECH.	(6) 4TH ECH.	(7) 5TH ECH.	(8) TOOLS REQUIRED	(9) REMARKS
HEADSET H-113/U								
	service	X						
	inspect	X						
	test			X			1	Continuity
	repair			X			2	All Repairs

SECTION VI ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	(2) 1ST ECH.	(3) 2ND ECH.	(4) 3RD ECH.	(5) 4TH ECH.	(6) 5TH ECH.	(7) TOOL CODE	(8) REMARKS
H-113/U (continued)							
MULTIMETER TS-352/U			+			1	
TOOL KIT TE-49			+			2	

By Order of Secretary of the Army:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army:

DASA (6)
USASA (2)
CNGB (1)
Tech Stf, DA (1) except
CSigO (14)
Tech Stf Bd (1)
USCONARC (5)
USAARTYBD (1)
USAARMBD (2)
USAIB (1)
USARADBD (2)
USAAVNBD (1)
USAABELCTBD (1)
USAATBD (1)
ARADCOM (2)
ARADCOM Rgn (2)
OS Maj Comd (3)
OS Base Comd (2)
LOGCOMD (2)
MDW (1)
Armies (2)
Corps (2)
Instl (2)
Ft Monmouth (63)
USATC AD (2)
USATC Armor (2)
USATC Engr (2)
USATC Inf (2)
USATC FA (2)
USAOMC (3)
Svc Colleges (2)
Br Svc Sch (2)
GENDEP (2) except
Atlanta GENDEP (none)
Sig Sec, GENDEP (5)
Sig Dep (12)
WRAMC (1)
USA Trans Tml Comd (1)
Army Tml (1)
POE (1)
OSA (1)
USAEPG (2)
AFIP (1)
AMS (1)
Army Pictorial Cen (2)
EMC (1)
Yuma Test Sta (2)
USACA (3)
USASSA (20)
USASSAMRO (1)
USASEA (1)
USARCARIB Sig Agcy (1)
USA Sig Msl Spt Agcy (13)
Sig Fld Maint Shops (3)
USA Corps (3)
Def Log Svc Cen (1)
JBUSMC (2)
Units org under fol TOE: (2 copies each except as indicated)
11–7
11–16
11–57
11–97
11–117
11–155
11–157
11–500 (AA–AE) (4)
11–557
11–587
11–592
11–597

NG: State AG (3); Units—Same as Active Army except allowance is one copy to each unit.

USAR: None.

For explanation of abbreviations used, see AR 320–50.